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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/82	21,170	03/29/2001	Dan Martin Scott	108344.00016	4015	
	75	11/06/2002				
	Steven W. Thrasher Jackson Walker, LLP 2435 North Central Expressway, #600			EXAMINER		
243				WALLACE, SCOTT A		
Ric	Richardson, TX 75080			ART UNIT	PAPER NUMBER	
				2671		
•				DATE MAILED: 11/06/2002	DATE MAILED: 11/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

X

	···· ,	Application No.	Applicant(s)				
	_	09/821,170	DAN MARTIN SCOTT				
	Office Action Summary	Examiner					
	,		Art Unit				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on <u>07 A</u>	<u>ugust 2</u> 002 .					
2a) <u></u>		s action is non-final.					
3)							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>7,9 and 17-23</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>7,9,17,18 - 23</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) \square The translation of the foreign language provisional application has been received. 15) \square Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachmen		•					
2) Notic	ne of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)				

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1. The indicated allowability of claims 7,9 and 17-20 are withdrawn in view of the newly discovered reference(s) to Backman et al and Kuo and Accuracy Assessment of Mapping Products. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Backman et al., U.S. Patent No. 5,902,347.
- 4. As per claim 7, Backman et al discloses a system for georeferencing of a digital raster map, comprising: a processing platform for executing code capable of georeferencing a digital raster map (column 2 lines 9-11 and 18-23); and a storage platform comprising cache memory for storing at least the digital raster map, the storage platform being coupled to the processing platform (column 8 lines 3-6).
- 5. As per claim 9, Backman et al discloses a system that enables the georeferencing of a digital raster map (column 2 lines 9-11 and 18-23), comprising: a processing platform for executing code capable of georeferencing a digital raster map (column 2 lines 9-11 and 18-23); and a storage platform comprising non-cache volatile storage for storing at least the digital raster map (column 2 lines 27-28), the storage platform being coupled to the processing platform (column 2 lines 27-28).

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6. Claims 17,18 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Saylor et al., U.S. Patent No. 5,487,139.

- As per claim 17, Saylor et al discloses a data signal comprising a data structure that is capable of georeferencing a raster map, by: providing for display a first map and a second map (column 2 lines 25-60), the first map being a digital raster map (column 5 lines 15-40), and the second map being a previously georeferenced map (column 5 lines 15-40), the first and second maps covering substantially the same geographic area when they are displayed (column 2 lines 25-60); received an entry identifying a first point pair, one point being on each map (column 2 lines 35-48); receiving an entry identifying a second point pair, one point being on each map (column 2 lines 35-48), the corresponding points of the points of the point pairs having approximately the same geographic location on each map (column 2 lines 35-48); assigning to the points on the first map a longitude coordinate and a latitude coordinate which is identical to the longitude coordinate and latitude coordinate of their corresponding points on the second map (column 5 lines 15-40): and computing a georeferencing function based on the pixel coordinates of the points of the first point pair on the first map and the geographic coordinates of the points of the second map (column 5 lines 15-40).
- 8. As per claim 18, Saylor et al discloses wherein as a result of the receiving steps, the points of the point pairs comprise marks on the first map at respective locations and marks on the second map at corresponding locations (column 2 lines 25-60).
- As per claim 23, Saylor et al. discloses a system for georeferencing a digital raster map, comprising: a processing platform for executing code capable of georeferencing a digital raster map (column 5 lines 15-29); and a storage platform coupled to the processing platform for storing at least a digital raster map (column 2 lines 49-60), the storage map comprising facilities for providing for display a first map and a second map (column 2 lines 25-60), the first map being a digital raster map, and the second map being a previously georeferenced map (column 5 lines 15-40), the first and second maps covering substantially the same geographic area when they are displayed (column 2 lines 25-60);

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facilities for receiving an entry identifying a first point pair, one point being on each map; facilities for receiving an entry identifying a second point pair, one point being on each map (column 2 lines 35-48), the corresponding points of the point pairs having approximately the same geographic location on each map (column 2 lines 25-60); facilities for assigning to the points on the first map a longitude coordinate and a latitude coordinate which is identical to the longitude coordinate and latitude coordinate of their corresponding points on the second map (column 5 lines 15-40); and facilities for computing a georeferencing function based on the pixel coordinates of the points of the first point pair on the first map and the geographic coordinates of the points of the second point pair on the second map (column 5 lines 15-40).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saylor et al. in view of Accuracy of Mapping Products.
- 11. As per claim 19, Saylor et al discloses more than two point pairs are identified and are used to compute the georeferencing function pursuant to a transformation technique (column 2 lines 25-45). However Saylor et al does not disclose further comprises executing a validation check of the georeferencing function pursuant to a standard deviation technique. This is disclosed Accuracy of Mapping Products in section 4.2 study design. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the standard deviation technique to as a validation check with the system of Saylor because this using standard deviation was a well known and efficient way of computing deviation errors.

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not fall within the standard deviation can be discarded.

12. As per claim 20, Accuracy of Mapping Products discloses wherein the data structure is capable of rejecting a point pair when the point pair deviates a predetermined amount from a predetermined standard error. This would have been obvious to one of ordinary skill in the art at the time the invention was made because standard deviation is a well known technique when plotting points and points that do

- 13. As per claim 21, Saylor discloses wherein at least four points are identified and are used to compute the georeferencing function (column 5 lines 15-30). However, Saylor does not specifically disclose at least four points used for a general linear transformation. This would have been obvious to one of ordinary skill in the art at the time the invention was made because since there are two maps and it takes a starting point and a ending point for linear transformation, therefore it would take four points in this case, two on each map.
- 14. Claim 22is rejected under 35 U.S.C. 103(a) as being unpatentable over Saylor et al in view of Kuo, U.S. Patent No. 5,596,494.
- 15. As per claim 22, Saylor discloses wherein at least three points are identified and are used to compute the georeferencing function (column 5 lines 15-30). However, Saylor does not specifically disclose using at least points pursuant to a general rotational linear transformation. This is disclosed in Kuo in column 16 lines 25-50. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use three points for rotational transformation in Saylor because you need at least three points for rotation. Two points for a straight line and a third to rotate to a third point.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Scott Wallace** whose telephone number is **703-605-5163**.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached at 703-305-9798.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

> MARK ZIMMERMAN SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2600**